

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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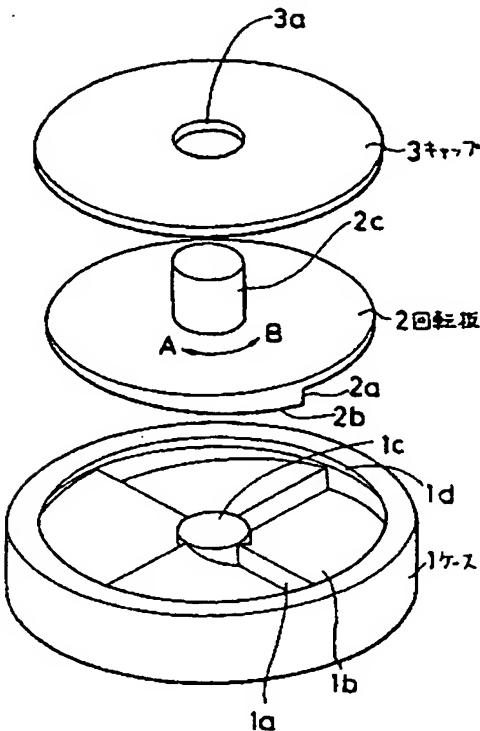
APPLICATION DATE : 17-03-87  
APPLICATION NUMBER : 62060009

APPLICANT : CANON ELECTRONICS INC;

INVENTOR : SUGANO TOMOJI;

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TITLE : ROTARY FLUID DAMPER



**ABSTRACT :** PURPOSE: To change the strength of damper action depending on direction of rotation by composing the sectional form of a surface, in contact with fluid, of a body of rotation and/or of a case so as to make magnitude of resistance of fluid different depending on the direction of rotation of the body of rotation.

CONSTITUTION: A circular hollow portion 1d is made in a case 1, and a bearing shaft 1c for a rotary plate 2 and irregularities, dividing the whole circuit of said shaft into four, are formed with orthotomic surfaces 1a to the direction of rotation of the rotary plate 2 and inclined surfaces 1b, on the bottom face of the hollow portion 1d, and grease is filled up in the hollow portion 1d. Again, the whole circuit of the rotation shaft 2c is bisected by irregularities formed with orthotomic surfaces 2a and inclined surfaces 2b made on the under surface of the rotary plate 2 slightly smaller in diameter than the hollow portion 1d. Further, direction of the orthotomic surfaces 2a and the inclined surfaces 2b is made in opposite to the direction of the orthotomic surfaces 1a and the inclined surfaces 1b. Therefore, as sectional form in contact with fluid is different depending on the direction of rotation of the rotary plate 2, strength of damper action of respective direction can be made different.

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